CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	1996
DateRun:	03/17/1996
Experimenters:	Jay Jankauskas
ClientType:	Vessel Cleaning Company
ProjectNumber:	Project #1
Substrates:	Aluminum, Stainless Steel
PartType:	Part
Contaminants:	Carbon Deposits
Cleaning Methods:	Ultrasonics
Analytical Methods:	Visual
Purpose:	Two chemistries were tested.
Experimental Procedure:	Two stainless steel tank valves and four sections of tank lids were cleaned for Vessel Cleaning Company. Two different chemistries were tested. One was a twenty percent solution of Delta Omega Technologies DOT 111/113, the other chemistry was a mixed solution containing Sodium Hydroxide, Rochester Midland Split and Chemex 110. Each of these solutions were used in the Crest 40kHz ultrasonic unit. Cleaning time varied from 5 minutes to 30 minutes. SUBSTRATE MATERIAL: Aluminum Drum Lids and Stainless-Steel tank valves. CONTAMINANTS: Carbon Black CONTAMINATING PROCESS USED: As received
Results:	The DOT 111/113 appeared to work better than Vessel Cleaning Company’s solution on the stainless-steel valves (heavy deposits still remained). Vessel Cleaning Company's solution was much more effective than the DOT-111/113 on the more lightly soiled tank lids. No etching was noticed, and all light contaminant was removed (some heavy deposits still remained).

Summary:

Substrates:	Aluminum, Stainless Steel				
Contaminants:	Carbon Deposits				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Delta Omega Technologies Ltd	DOT 111/113	20	0.00	☑	
No Specific Vendor	NaOH, Rochester Midland Split, Chemex 110		0.00	☐	

Conclusion: The DOT-111/113 appeared to have some trouble in removing even the light deposits from the Aluminum.